

Title (en)

Front derailleur

Title (de)

Vorderer Umwerfer

Title (fr)

Dérailleur avant

Publication

EP 1433696 A2 20040630 (EN)

Application

EP 03029751 A 20031223

Priority

US 32949902 A 20021227

Abstract (en)

A top pull type front derailleur (12) is designed to move or shift a chain between two or more sprockets for changing gears. The front derailleur (12) basically has a bicycle frame clamping band, a linkage assembly and a chain guide (31). The linkage assembly includes a cable connection point (P) and is arranged between the bicycle frame clamping band and the chain guide (31) to move the chain guide (31) laterally towards and away from the clamping band. The clamping band has a top pull cable guide surface (S) that is configured and arranged relative to the clamping band to guide a cable (18) from vertically above the clamping band to the cable connection point (P) when the front bicycle derailleur (12) is operatively mounted to a bicycle frame. Preferably, the top pull cable guide surface (S) is formed on a peripheral surface of a roller (35) that is rotatably mounted on the clamping band. <IMAGE>

IPC 1-7

B62M 9/12

IPC 8 full level

B62M 9/1342 (2010.01); **B62M 9/135** (2010.01); **B62M 9/137** (2010.01)

CPC (source: EP US)

B62M 9/1342 (2013.01 - EP US); **B62M 9/135** (2013.01 - EP US); **B62M 9/137** (2013.01 - EP US)

Cited by

EP1990268A3; EP1997725A3; EP1780114A3; US8029396B2; US7914407B2; US8439779B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1433696 A2 20040630; **EP 1433696 A3 20050601**; **EP 1433696 B1 20070314**; **EP 1433696 B2 20111228**; AT E356744 T1 20070415; CN 100343116 C 20071017; CN 1511756 A 20040714; DE 60312468 D1 20070426; DE 60312468 T2 20071129; DE 60312468 T3 20120412; DE 60312468 T4 20130822; JP 2004210271 A 20040729; TW 200410864 A 20040701; TW I254688 B 20060511; US 2004127314 A1 20040701; US 7014584 B2 20060321

DOCDB simple family (application)

EP 03029751 A 20031223; AT 03029751 T 20031223; CN 200310123552 A 20031226; DE 60312468 A 20031223; DE 60312468 T 20031223; JP 2003433963 A 20031226; TW 92134058 A 20031203; US 32949902 A 20021227